

IN THE SPECIFICATION:

Page 1, please amend the paragraph after the heading "CROSS
REFERENCE TO RELATED APPLICATION" beginning at line 4 as follows:

This is a continuation of U.S. application Serial No. 10/219,269, filed August 16, 2002, now U.S. Patent No. 6,604,031, which is a continuation of U.S. application Serial No. 09/986,089, filed November 7, 2002, now U.S. Patent No. 6,470,244, which is a continuation of U.S. application Serial No. 09/832,043, filed April 11, 2001, now U.S. Patent No. 6,317,664, which is a continuation of U.S. application Serial No. 09/073,851, filed May 7, 1998, now U.S. Patent No. 6,230,085, the subject matter of which is incorporated by reference herein.

Page 2, please replace the paragraph beginning at line 4 with the following paragraph:

In detecting the existence of a train, a high reliability is required, because a control device on the ground (a wayside controller) utilizes a train detecting signal generated as described above to locate the train and to operate traffic signals for the train. Particularly, for the purpose of securing adequate safety in the train service, it is absolutely essential to avoid possibility that, although a train actually exists within a certain section forming a track circuit and therefore the pair of rails which form the track are short-circuited, a signal indicating no train in the section of the track circuit is erroneously transmitted, possibly due to a failure in a transmitter/receiver device, for example.